

# Checklist of the smaller families of Opomyzoidea, Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera) of Finland

Jere Kahanpää<sup>1</sup>

<sup>1</sup> *Finnish Museum of Natural History, Zoology Unit, P.O. Box 17, FI-00014 University of Helsinki, Finland*

Corresponding author: Jere Kahanpää (jere.kahanpaa@helsinki.fi)

---

Academic editor: J. Salmela | Received 5 February 2014 | Accepted 6 March 2014 | Published 19 September 2014

---

<http://zoobank.org/E23D8F38-F588-47EE-8AA2-FD5DAECBCA1D>

---

**Citation:** Kahanpää J (2014) Checklist of the smaller families of Opomyzoidea, Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera) of Finland. In: Kahanpää J, Salmela J (Eds) Checklist of the Diptera of Finland ZooKeys 441: 285–290. doi: 10.3897/zookeys.441.7141

---

## Abstract

A species checklist is presented for Finland covering seven smaller families of Opomyzoidea: Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera).

## Keywords

Checklist, Finland, Diptera, biodiversity, faunistics

## Introduction

The superfamily Opomyzoidea is likely to be para- or polyphyletic (see Wiegmann et al. 2011). It has long been used as a dumping grounds for acalyptrate taxa that do not fit well elsewhere. As such, the superfamily is poorly defined and hardly any two authors agree on its definition. Opomyzoidea includes one large family (Agromyzidae, the leaf-mining flies, with over 3000 described species) and more than a dozen small families. The exact number of recognized families varies. The Agromyzidae are treated

**Table 1.** Number of species by family.

Family	Number of species in			Level of knowledge
	World (Pape et al. 2011)	Europe	Finland	
Anthomyzidae	93	28	15	average
Asteiidae	136	18	6	average
Aulacigastridae	18	4	2	good
Clusiidae	360	14	12	good
Odiniidae	64	14	5	average
Opomyzidae	59	33	16	average
Periscelididae	83	6	4	average

elsewhere in this volume of ZooKeys. The remaining opomyzoid families are presented here in alphabetical order.

Hackman (1980) last listed the Finnish species of these families. World catalogues have recently been published for Periscelididae (Mathis and Rung 2011) and Odiniidae (Gaimari and Mathis 2011). For Anthomyzidae the Revision of West Palearctic Anthomyzidae by Roháček (2006, 2009) is followed. Three of the four Palearctic *Aulacigaster* species have been found in Europe (Kassebeer 2001, Rung and Mathis 2011). Papp and Withers (2011) reviewed the Palearctic Periscelidinae and proposed some nomenclatorial changes. Hackman’s (1959) review of the Finnish opomyzid fauna is still valuable but several additional species have since been recognized.

**Checklist**

suborder Brachycera Macquart, 1834  
clade Eremoneura Lameere, 1906  
clade Cyclorrhapha Brauer, 1863  
infraorder Schizophora Becher, 1882  
clade Muscaria Enderlein, 1936  
parvorder Acalyptratae Macquart, 1835  
superfamily Opomyzoidea Fallén, 1820

**ANTHOMYZIDAE** Czerny, 1903  
**ANTHOMYZA** Fallén, 1810  
*Anthomyza collini* Andersson, 1976  
*Anthomyza dissors* Collin, 1944  
*Anthomyza elbergi* Andersson, 1976  
    = *sordidella* auct. nec (Zetterstedt, 1848)  
*Anthomyza gracilis* Fallén, 1823  
*Anthomyza macra* Czerny, 1928  
*Anthomyza pallida* (Zetterstedt, 1838)  
    = *unguicella* (Zetterstedt, 1838)

*Anthomyza paraneglecta* Elberg, 1968  
*Anthomyza pleuralis* Czerny, 1928  
**ARGANTHOMYZA** Roháček, 2009  
*Arganthomyza socculata* (Zetterstedt, 1847)  
= *ungulata* (Loew, 1873)  
**CAREXOMYZA** Roháček, 2009  
*Carexomyza caricis* (Roháček, 1999)  
**FUNGOMYZA** Roháček, 1999  
*Fungomyza albimana* (Meigen, 1830)  
**PARANTHOMYZA** Czerny, 1902  
*Paranthomyza nitida* (Meigen, 1838)  
**STIPHROSOMA** Czerny, 1928  
= *Ptenotaenia* Enderlein, 1936  
*Stiphrosoma laetum* (Meigen, 1830)  
= *cingulatum* misid.  
*Stiphrosoma sabulosum* (Haliday, 1837)  
**TYPHAMYZA** Roháček, 1992  
*Typhamyza bifasciata* (Wood, 1911)

**ASTEIIDAE** Rondani, 1856  
**ASTEIINAE** Rondani, 1856  
**ASTEIA** Meigen, 1830  
sg. *Asteia* Meigen, 1830  
*Asteia amoena* Meigen, 1830  
*Asteia concinna* Meigen, 1830  
*Asteia elegantula* Zetterstedt, 1847  
**SIGALOESSINAE** Sabrosky, 1956  
**LEIOMYZA** Macquart, 1835  
*Leiomyza dudai* Sabrosky, 1956  
*Leiomyza laevigata* (Meigen, 1830)  
*Leiomyza scatophagina* (Fallén, 1823)

**AULACIGASTRIDAE** Duda, 1924  
**AULACIGASTER** Macquart, 1835  
= *Aulacogaster* emend.  
*Aulacigaster leucopeza* (Meigen, 1830)  
*Aulacigaster pappi* Kassebeer, 2001

**CLUSIIDAE** Handlirsch, 1884  
**CLUSIINAE** Handlirsch, 1884  
**CLUSIA** Haliday, 1838  
= *Paraclusia* Czerny, 1903  
*Clusia flava* (Meigen, 1830)

*Clusia tigrina* (Fallén, 1820)

CLUSIODINAE

**CLUSIODES** Coquillett, 1904

= **Heteroneura** Fallén, 1823 preocc.

*Clusiodes albimanus* (Meigen, 1830)

*Clusiodes apicalis* (Zetterstedt, 1848)

*Clusiodes caledonicus* (Collin, 1912)

= *gentilis* misid.

*Clusiodes freyi* Tuomikoski, 1933

*Clusiodes geomyzinus* (Fallén, 1823)

*Clusiodes microcercus* Stackelberg, 1955

*Clusiodes pictipes* (Zetterstedt, 1855)

*Clusiodes ruficollis* (Meigen, 1830)

*Clusiodes verticalis* (Collin, 1912)

**HENDELIA** Czerny, 1903

*Hendelia beckeri* Czerny, 1903

**ODINIIDAE** Hendel, 1920

ODINIINAE Hendel, 1920

**NEOALTICOMERUS** Hendel, 1903

*Neoalticomerus formosus* (Loew, 1844)

**ODINIA** Robineau-Desvoidy, 1830

*Odinia boletina* (Zetterstedt, 1848)

*Odinia czernyi* Collin, 1952

= *mejerei* misid.

*Odinia ornata* (Zetterstedt, 1838)

*Odinia xanthocera* Collin, 1952

**OPOMYZIDAE** Fallén, 1820

**ANOMALOAETA** Frey, 1921

*Anomaloaeta guttipennis* (Zetterstedt, 1838)

**GEOMYZA** Fallén, 1810

*Geomyza angustipennis* Zetterstedt, 1847

*Geomyza apicalis* (Meigen, 1830)

*Geomyza consobrina* Zetterstedt, 1847

*Geomyza hackmani* Nartshuk, 1984

= *combinata* auct. nec (Linnaeus, 1767)

= *balachowskyi* misid.

*Geomyza majuscula* (Loew, 1864)

= *breviforceps* Hackman, 1959

*Geomyza martineki* Drake, 1992

*Geomyza paganettii* (Strobl, 1909)

*Geomyza pilosula* Czerny, 1928

*Geomyza tripunctata* Fallén, 1823

**OPOMYZA** Fallén, 1820

*Opomyza florum* (Fabricius, 1794)

*Opomyza germinationis* (Linnaeus, 1758)

*Opomyza lineatopunctata* von Roser, 1840

*Opomyza nigriventris* Loew, 1865

*Opomyza punctata* Haliday, 1833

*Opomyza punctella* Fallén, 1820

**PERISCELIDIDAE** Oldenberg, 1914

PERISCELIDINAE Oldenberg, 1914

**MYODRIS** Lioy, 1864

= *Microperiscelis* Oldenberg, 1914

*Myodris annulata* (Fallén, 1813)

**PERISCELIS** Loew, 1858

*Periscelis annulipes* Loew, 1858

*Periscelis nigra* (Zetterstedt, 1860)

*Periscelis winnertzii* Egger, 1862

## Excluded species

*Clusiodes gentilis* (Collin, 1912) misidentified

*Geomyza balachowskyi* Mesnil, 1934 misidentified

*Odinia meijerei* Collin, 1952 misidentified

## Notes

***Aulacigaster pappi* Kassebeer, 2001.** Most of the Finnish *Aulacigaster* material belong to this species, including all specimens currently stored in the Finnish Museum on Natural History (MZH). Storå (1956, 1957) and Hackman (1980) misidentified *A. pappi* as *A. leucopeza*. A few Finnish specimens of the real *A. leucopeza* were found in private collections.

***Clusiodes gentilis* (Collin, 1912).** Lonsdale and Marshall (2007) record this species from Finland on a map. The data is apparently taken from Frey (1928). As Tuomikoski (1936) has pointed out, Frey misidentified *C. caledonicus* as *C. gentilis*.

## References

Frey R (1928) Förteckning över Finlands Clusiider (Dipt., Haplost.). Notulae entomologicae 8: 108–109.

- Gaimari SD, Mathis WN (2011) World catalog and conspectus on the family Oadiniidae (Diptera: Schizophora). In: Brake I, Thompson FC (Eds) Contributions to the Systema Dipterorum (Insecta: Diptera). Myia 12: 291–339. <http://hdl.handle.net/10088/18930>
- Hackman W (1959) The Opomyzidae (Dipt.) of Eastern Fennoscandia. Notulae entomologicae 38[1958](4): 114–126.
- Hackman W (1980) A check list of the Finnish Diptera. Notulae entomologicae 60: 17–48, 117–162.
- Kassebeer CF (2001) Die einheimischen Arten der Gattung *Aulacigaster* Macquart, 1835 (Diptera, Aulacigastridae). Dipteron 4(1): 23–32.
- Lonsdale O, Marshall SA (2007) Redefinition of the genera *Clusiodes* and *Hendelia* (Diptera: Clusiidae: Clusiodinae), with a review of *Clusiodes*. Studia dipterologica 14(1): 117–159.
- Mathis WN, Rung A (2011) World catalog and conspectus on the Family Periscelididae (Diptera: Schizophora). In: Brake I, Thompson FC (Eds) Contributions to the Systema Dipterorum (Insecta: Diptera). Myia 12: 341–377. <http://hdl.handle.net/10088/18931>
- Pape T, Blagoderov V, Mostovski MB (2011) Order Diptera Linnaeus, 1758. In: Zhang Z-Q (Ed) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. Zootaxa 3148: 222–229. <http://www.mapress.com/zootaxa/2011/f/zt03148p229.pdf>
- Papp L, Withers P (2011) A revision of the Palaearctic Periscelidinae with notes on some New World species (Diptera: Periscelididae). Annales historico-naturales Musei Nationalis Hungarici 103: 345–371.
- Roháček J (2006) A monograph of Palaearctic Anthomyzidae (Diptera) Part 1. Časopis Slezského zemského muzea Opava (A) 55, Supplement 1. Slezske zemske muzeum, Opava, 328 pp.
- Roháček J (2009) A monograph of Palaearctic Anthomyzidae (Diptera) Part 2. Časopis Slezského zemského muzea Opava (A) 58, Supplement 1. Slezske zemske muzeum, Opava, 180 pp.
- Rung A, Mathis WN (2011) A revision of the genus *Aulacigaster* Macquart (Diptera: Aulacigastridae). Smithsonian Contributions to Zoology, vol. 633. Smithsonian Institution Scholarly Press, Washington D.C., 132 pp. <http://hdl.handle.net/10088/15584>
- Storå R (1956) Fynd av sällsynta dipterer i Österbotten (*Om*). Notulae entomologicae 36: 17–22.
- Storå R (1957) Einige bemerkenswerte Dipteren-Funde an einem saftenden Birkenstamme. Notulae entomologicae 37(1): 23–26.
- Tuomikoski R (1933) Notizen über die Clusiiden Finnlands. Notulae entomologicae 13(1): 15–19.
- Tuomikoski R (1936) Bemerkungen über die Clusiiden (Dipt.) Finnlands. Annales Entomologici Fennici 2(4): 182–186.
- Wiegmann BM, Trautwein MD, Winkler IS, Barr NB, Kim J-W, Lambkin C, Bertone MA, Cassel BK, Bayless KM, Heimberg AM, Wheeler BM, Peterson KJ, Pape T, Sinclair BJ, Skevington JH, Blagoderov V, Caravas J, Kutty SN, Schmidt-Ott U, Kampmeier GE, Thompson FC, Grimaldi DA, Beckenbach AT, Courtney GW, Friedrich M, Meier R, Yeates DK (2011) Episodic radiations in the fly tree of life. Proceedings of the National Academy of Sciences of the United States of America 108(14): 5690–5695. doi: 10.1073/pnas.1012675108